TX-SR600

Digital Surround Home Theater Receiver

ONKYO®
IMAGINATIVE SIGHT & SOUND

Available in Gold or Black

The Global Standard Has Just Been Raised

The TX-SR600 is one of the finest receivers created by Onkyo, or anyone else! The features that distinguished this receiver from others on the market and made it one of the world's bestselling A/V components just got better. Onkyo standards, WRAT and Optimum Gain Volume Circuitry are combined with an added sixth channel to bring you the latest sound formats, Dolby Digital EX and DTS-ES. Experience your home theater the way it was meant to be with the TX-SR600.

Dolby Digital EX

Dolby Digital EX creates six full-bandwidth output channels from 5.1-channel sources. This is done using a matrix decoder that derives three surround channels from the two in the original recording. For best results, Dolby Digital EX should be used with movie soundtracks recorded with Dolby Digital Surround EX.

Designed to Handle Today's and Tomorrow's High-Resolution Multichannel A/V Sources

To accommodate the wide dynamic range of sources like DVD-Audio and Super Audio CD (SACD), the TX-SR600 delivers a stereo frequency response from 10 Hz to 100,000 Hz. The unit also features a 5.1-channel input, meaning it's ready for new multichannel formats down the road.

Optimum Gain Volume Circuitry

To produce volume at low levels, conventional volume attenuation methods must initially drop a signal close to the noise floor. This often taints the signal with a small amount of noise, which becomes amplified when the signal is amplified. Onkyo's Optimum Gain Volume Circuitry solves this problem by adjusting the gain so that less than half the typical amount of attenuation is needed. This ensures that the signal never comes close to the noise floor, and thereby eliminates the possibility of noise contamination that plagues conventional volume-attenuation designs.

Color-Coded Speaker Terminals

No more worries about which speaker wire goes to which speaker terminal. The TX-SR600 features color-coded speaker terminals that allow you to easily connect the correct wire to the correct terminal. Simply attach the color-coded label to the speaker cable, attach the cable to the same colored speaker terminal for fast speaker connection.

CinemaFILTER

The tonal balance of a film soundtrack will be edgy and "bright" when played back over audio equipment in your home because film soundtracks are designed to be played back in large theaters using different equipment. Onkyo had developed its own enhancement that restores the correct tonal balance for watching a movie soundtrack in your smaller home theater.

Crossover Adjustment for Bass Management

Previously crossover frequency was fixed at 80 Hz. With Crossover Adjustment, you can set the frequency at 80/100 or 120 Hz depending on your speakers' bass playback ability. This lets you more accurately match the performance characteristics of the subwoofer to your front speakers.

Outstanding Value

The TX-SR600 offers the performance of high-end receivers at a fraction of the price by sharing many of the same precision parts (heat sink, bus bars, metal work, etc.) and circuit design (WRAT, Non-Scaling Configuration, high-current low-impedance drive) as its more expensive siblings. This drastically reduces tooling costs, and the savings are passed on.

TX-SR600

Digital Surround Home Theater Receiver

Amplifier Features

- 145 Watts minimum to each of the six channels into 6 ohms at 1 kHz
- Wide Range Amplifier Technology (WRAT)
- Extended Frequency Response (10 Hz to 100 kHz)
- Full bandwidth power to all 6 main channels
- High-current, low-impedance 6 ohm drive for all six channels
- Oversized electrolytic capacitors
- State-of-the-art linear PCM 192 kHz/24-bit DACs for L/R channels 96 kHz/24-bit DACs for other channels
- Fully discrete output stages for all six channels
- Optimum Gain Volume Circuitry
- Massive isolated transformer
- High-grade extruded aluminum heat sink
- Tone control (bass, treble) for front L/R speakers
- Low Frequency Effect (LFE) level control
- Auto-protection circuitry

Audio/Video Features

- DTS, DTS-ES Discrete/Matrix 6.1, DTS Neo: 6, Dolby Digital, Dolby Digital EX, Dolby Pro Logic II decoding
- A-Form Listening Mode Memory
- Non-Scaling Configuration
- CinemaFILTER
- 13 DSP soundfields
- All channel stereo
- Stereo Mode
- Direct Mode
- High Definition DSP
- Late night mode (high, low, off)
- "Easy-set" speaker configuration
- Advanced 24-bit CRYSTAL DSP chip
- Crossover Adjustment (80/100/120 Hz) for bass management
- Automatic signal detection
- 5.1-Channel input
- 4 digital inputs (1 coaxial, 3 optical; 3 assignable)
- Optical Digital Output
- 5 S-Video inputs and 2 outputs
- 5 A/V inputs
- 2 Audio inputs
- 2 Component video inputs and 1 output
- Front Panel VIDEO 4 input (Audio L/R, Composite video, S-Video, Optical)
- Subwoofer pre out
- Full input/output cassette and VCR loops
- 6 Sets of heavy-duty multiway speaker binding posts (dual banana-plug compatible) (except SP-B)
- Color-Coded Speaker Terminals

FM/AM Tuner Features

- Outstanding selectivity and sensitivity
- 40 FM/AM random presets
- FM auto tuning
- Selectable character-display input of up to 8 characters
- Red FM stereo indicator
- 75-ohm antenna input
- FM indoor antenna supplied
- AM loop antenna supplied

Other Performance Features

- IntelliVolume
- Precision digital speed-sensitive volume control
- Large 35-segment dot-matrix fluorescent display
- Onscreen display controller
- Absolute volume display
- Separate PC (printed circuit) boards for audio and video sources
- Individual input selectors for each source
- 3-Mode display dimmer (bright, normal, low)
- Headphone jack (standard size)
- Audio mute (remote)
- Sleep timer (remote)
- Battery-free memory backup
- 2 Switched AC convenience outlets with a total 100 watts max
- Heavy-duty power cord
- Large non-resonant feet
- Heavy-gauge, anti-resonant, reinforced steel chassis
- Vibration-resistant cover
- Handsome solid aluminum front panel
- Powerful preprogrammed/learning remote

Preprogrammed/learning remote

SPECIFICATIONS

Amplifier Section

Power Output	
Front L/R	145 W/ch (6 Ω, 1 kHz, JEITA)
Center	145 W (6 Ω, 1 kHz, JEITA)
Surround L/R	145 W/ch (6 Ω, 1 kHz, JEITA)
Surround Back	145 W (6 Ω, 1 kHz, JEITA)
Dynamic Power (front)	
3 Ω/4 Ω/8 Ω	215 W/ch/160 W/ch/95 W/ch
Total Harmonic Distortion	0.08 % (at rated power)
Frequency Response	10 Hz-100 kHz (+ 1 dB, - 3 dB)
Signal-to-Noise Ratio	
Line in	100 dB (IHF-A, 0.5 V input)
Damping Factor	60 at 8 Ω
Input Sensitivity and Impedance	
LINE (CD, TAPE, VIDEO 1, 2, 3, 4)	200 mV, 47 kΩ
MULTI CH INPUT	
DVD FRONT L/C/R, SURROUND L/R	200 mV, 47 kΩ
SUBWOOFER	36 mV, 47 kΩ
DIGITAL INPUT COAXIAL	0.5 Vp-p, 75 Ω
DVD, VIDEO 1, 2, 3, 4	1 Vp-p, 75 Ω
	1 Vp-p, 75 Ω (Y)
	0.28 Vp-p, 75 Ω (C)
COMPONENT VIDEO IN-1, 2	1 Vp-p, 75 Ω (Y)
	0.7 Vp-p, 75 Ω (PB/CB, PR/CR)
Output Level and Impedance	
Rec out (TAPE, VIDEO 1)	200 mV, 470 Ω
Pre out (SUBWOOFER)	1.0 V, 470 Ω
VIDEO (VIDEO 1, MONITOR)	1 Vp-p, 75 Ω
	1 Vp-p, 75 Ω (Y)
	0.28 Vp-p, 75 Ω (C)
COMPONENT VIDEO OUT	1 Vp-p, 75 Ω (Y)
	0.7 Vp-p, 75 Ω (PB/CB, PR/CR)
Tone Control	
BASS	± 12 dB at 50 Hz
TREBLE	± 12 dB at 20 kHz

Tuner Section

Usable Sensitivity	
FM Mono	11.2 dBf, 1.0 μV (75 Ω IHF)
FM Stereo	17.2 dBf, 2.0 μV (75 Ω IHF)
AM	30 μV
Signal-to-Noise Ratio	
FM Mono	76 dB, IHF-A
FM Stereo	70 dB, IHF-A
AM	40 dB
Total Harmonic Distortion	
FM Mono	0.2 %
FM Stereo	0.3 %
AM	0.7 %
FM Stereo Separation	45 dB at 1 kHz/30 dB at 100 Hz-10 kHz

General

Dimensions (W x H x D)	435 x 175 x 431.5 mm
Weight	12.2 kg

NPR No. 02N06 03/02 *Printed in Japan*

Due to a policy of continuous product improvement, Onkyo reserves the right to change specifications and appearance without notice.
"Dolby", "Pro Logic", "Digital EX", and the double-D symbol are trademarks of Dolby Laboratories. "DTS" is a trademark of Digital Theater Systems, Inc.

ONKYO®
IMAGINATIVE SIGHT & SOUND

Onkyo Corporation Sales & Product Planning Dept.: 2-1, Nisshin-cho, Neyagawa-shi, OSAKA 572-8540, JAPAN Tel: 072-831-8111 Fax: 072-833-5222 http://www.onkyo.co.jp/
Onkyo Corporation Marketing Dept.: 2-1, Nisshin-cho, Neyagawa-shi, OSAKA 572-8540, JAPAN Tel: 072-831-8008 Fax: 072-833-5222 http://www.onkyo-intl.com/
Onkyo China Limited Units 2102-2107, Metroplaza Tower I, 223 Hing Fong Road, Kwai Chung, N. T., HONG KONG, SAR of China Tel: 852-2429-3118 Fax: 852-2428-9039 http://www.onkyochina.com
Onkyo U.S.A. Corporation 18-10 Park Way, Upper Saddle River, N.J. 07458, U.S.A. Tel: 201-825-7950 Fax: 201-825-8150 http://www.onkyousa.com
Onkyo Europe Electronics GmbH Industriestrasse 20, 82110 Germering, GERMANY Tel: 089-849-320 Fax: 089-849-3226 http://www.onkyo.net